

**WASHINGTON STATE DEPARTMENT OF HEALTH
OFFICE OF FOOD SAFETY AND SHELLFISH PROGRAMS**

ANNUAL GROWING AREA REVIEW

PREPARED BY: Donald Melvin, Environmental Specialist

AREA: Pickering Passage

YEAR ENDING: December 31, 2005

CLASSIFICATION: Approved, Prohibited, Unclassified

ACTIVITIES IN THE GROWING AREA IN 2005:

Samples were collected from each station in the growing area 6 times during the year using the systematic random sampling method

ANALYTICAL RESULTS OF WATER SAMPLES:

Table #1 summarizes the results of all samples collected from the area. This summary shows that all stations in the approved portion of the growing area pass the NSSP water quality standard. Sample station #57 is threatened due to elevated bacteria levels. Individual sample results for station #57 are shown in Table 2.

CHANGE IN ACTUAL POLLUTION SOURCES THAT IMPACT THE GROWING AREA:

We currently have no information indicating that the area has new sources of pollution.

CLASSIFICATION STATUS:

- ☐ Well within the classification standards
- ☐ Meets standards but some concerns
- ☒ Meets standards but threatened with a downgrade in classification
- ☐ Fails to meet classification standards

REMARKS AND RECOMMENDATIONS:

Table #1 shows that all stations within the approved portion of the growing area meet the NSSP water quality standards for approved classification and the area is correctly classified.

TABLE 1**SUMMARY OF MARINE WATER DATA (SRS)**Growing Area: **PICKERING PASSAGE**Classification: **Approved, Prohibited, Unclassified**From **12/12/2000** To **12/07/2005****FECAL COLIFORM ORGANISMS/100 ML**

Station Number	Classification	Number of Samples	Range	Geometric Mean	Est. 90th Percentile	Meets Std.
52	Approved	32	1.7 - 540.0	3.0	14.0	Yes
53	Approved	32	1.7 - 13.0	2.2	4.0	Yes
54	Approved	32	1.7 - 4.5	1.9	2.0	Yes
57	Approved	32	1.7 - 170.0	6.5	35.0	Yes
58	Approved	31	1.7 - 79.0	3.0	13.0	Yes
59	Approved	31	1.7 - 23.0	3.1	8.0	Yes
60	Approved	32	1.7 - 49.0	2.5	6.0	Yes
61	Approved	32	1.7 - 4.5	1.7	2.0	Yes
62	Approved	32	1.7 - 130.0	2.3	6.0	Yes
63	Approved	32	1.7 - 4.5	1.8	2.0	Yes
64	Approved	32	1.7 - 4.0	1.8	2.0	Yes
65	Approved	32	1.7 - 11.0	1.9	3.0	Yes
66	Approved	30	1.7 - 920.0	3.5	18.0	Yes
68	Approved	32	1.7 - 13.0	1.9	3.0	Yes
69	Approved	32	1.7 - 33.0	2.3	6.0	Yes
70	Approved	32	1.7 - 17.0	2.3	5.0	Yes
71	Approved	32	1.7 - 79.0	2.9	9.0	Yes
72	Approved	32	1.7 - 79.0	3.1	11.0	Yes
74	Approved	33	1.7 - 4.5	1.8	2.0	Yes
75	Approved	32	1.7 - 6.8	2.1	3.0	Yes
76	Approved	31	1.7 - 7.8	2.1	3.0	Yes
55	Prohibited	32	1.7 - 920.0	6.7	51.0	No
56	Prohibited	35	1.7 - 240.0	3.0	12.0	Yes
67	Prohibited	32	1.7 - 540.0	11.0	95.0	No
586	Unclassified	23	1.7 - 14.0	2.0	3.0	*N/A
643	Unclassified	17	1.7 - 4.0	1.9	2.0	*N/A
654	Unclassified	15	1.7 - 2.0	1.7	1.0	*N/A
679	Unclassified	5	1.7 - 6.8	2.2	4.0	*N/A

All tides information is presented

The standard for approved shellfish growing waters is fecal coliform geometric mean not greater than 14 organisms/100 ml and an estimate of the 90th percentile not greater than 43 organisms/100 ml. The above table shows bacteriological results in relation to program standards.

* N/A - SRS criteria require a minimum of 30 samples from each station. *

† All samples have been verified.

Table 2

**SUMMARY OF SHELLFISH GROWING AREAS
WATER QUALITY STUDY RESULTS**

Growing Area: **PICKERING PASSAGE**

Sampling Station Number: **57**

Classification: **Approved**

Sample Date	Sample Time	Tide	Fcoli/100ml	Temperature	Salinity
12/13/2000	10:53	Ebb	1.7	8	24
01/30/2001	10:46	Ebb	9.3	7	26
04/03/2001	11:11	Flood	1.7	9	24
07/26/2001	11:05	Flood	23	14	32
08/14/2001	11:45	Flood	2	15	32
09/05/2001	13:38	Ebb	4.5	14	32
10/03/2001	13:49	Flood	1.7	13	32
11/27/2001	11:07	Flood	11	11	15
01/15/2002	10:52	Ebb	6.8	8	12
03/05/2002	11:48	Ebb	2	8	15
06/12/2002	10:56	Ebb	130	12	26
08/13/2002	12:27	Ebb	7.8	15	30
09/10/2002	10:41	Ebb	9.3	14	30
11/19/2002	12:17	Flood	170	12	5
01/13/2003	11:03	Flood	33	8	2
03/18/2003	11:15	Ebb	6.8	8	14
05/07/2003	10:51	Ebb	4	10	27
08/19/2003	10:50	Flood	79	16	26
10/14/2003	10:43	Ebb	6.8	13	30
11/04/2003	10:47	Flood	4.5	11	28
02/10/2004	12:07	Ebb	1.7	7	26
04/27/2004	13:38	Ebb	1.7	11	29
05/12/2004	11:49	Flood	17	11	25
08/18/2004	11:10	Ebb	1.7	16	30
10/19/2004	11:18	Flood	17	12	25
11/16/2004	10:31	Ebb	11	10	30
01/26/2005	10:57	Ebb	2	7	10
03/08/2005	09:45	Ebb	1.7	8	27
05/17/2005	11:27	Flood	13	11	28
08/30/2005	11:11	Flood	11	15	30
10/11/2005	11:25	Flood	1.7	13	30
12/07/2005	11:19	Flood	1.7	8	25

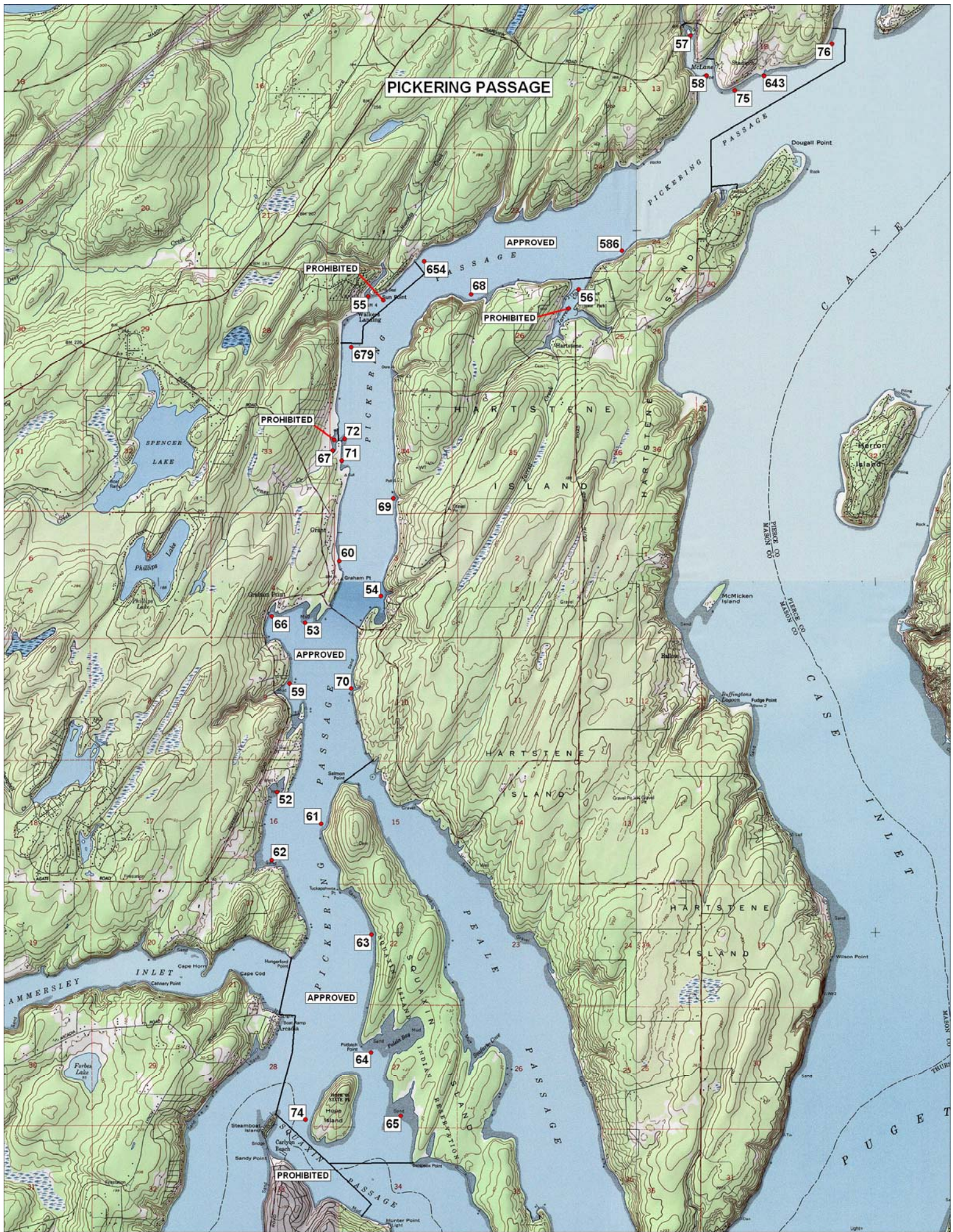
Number of Samples: 32

Geometric Mean: 6.5

Range: 1.7 - 170

Estimated 90th Percentile: 35

† All samples have been verified.



PICKERING PASSAGE

PROHIBITED

APPROVED

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PROHIBITED

Most recent five-year trend in fecal coliform pollution.

